

Patent Abstracts of Japan

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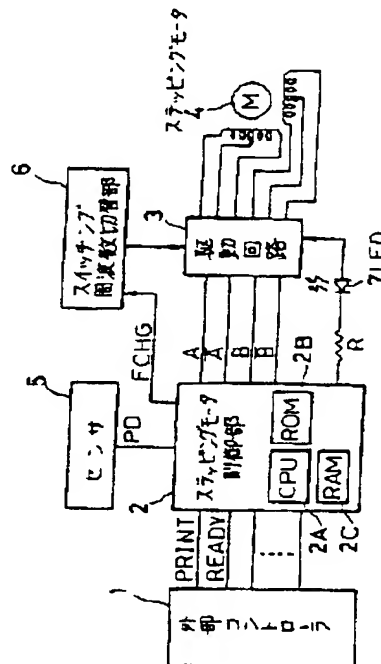
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TITLE : DRIVING ARRANGEMENT FOR  
STEPPING MOTOR



ABSTRACT : PURPOSE: To quickly inform an operator of abnormality without increasing a cost by stopping the drive of a stepping motor at the time of detecting the abnormality and by changing the switching frequency of a holding current at that time over to an audio frequency and causing the motor to generate an audible sound.

CONSTITUTION: A controller 2 judges that a jam occurs in a machine, when a recording medium cannot be detected within a predetermined period of time. The controller 2 holds an exciting signal (A, A', B, B') in the state at that point of time to stop the motor. In any one state of A and B phases, A and B' phases, A' and B phases and A' and B phases out of these four phases of the exciting signal, a driving current flows through a stepping motor 4, but the stepping motor 4 remains as it is stopped because the state of each phase of A, A', B, B' does not change. After that, the controller 2 sends a frequency changing signal FCHG to a switching frequency-changing part 6 to change the switching frequency of a holding current over to an audio frequency.

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Schrittmotor bei  
Fehlerrückmeldung,  
Umschalt in  
Stille + Musiknote